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(71)Applicant : **TORAY IND INC**

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(72)Inventor : **MORI YOSHITOKI**
MATSUMURA MASAHIDE
SATO KOICHI

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(54) HIGHLY CRIMPED POLYESTER-BASED CONJUGATE FIBER

(57)Abstract:

PROBLEM TO BE SOLVED: To obtain a highly crimped polyester-based conjugate fiber having excellent stretchability, crimp-developing properties and crimp-retention properties by conjugating a polytrimethylene terephthalate with a polyethylene terephthalate into a side-by-side type, selecting the ratio of intrinsic viscosities and the conjugating ratio, and imparting an adequate ratio of an apparent shrinkage to the fiber shrinkage, and a crimp-stretching rate.

SOLUTION: This highly crimped polyester-based conjugate fiber has a ratio of the intrinsic viscosities of the polytrimethylene terephthalate to the polyethylene terephthalate satisfying the formula (a): $0.4 \leq ([\eta_b]/[\eta_a]) \leq 0.8$ (wherein, $[\eta_a]$ is the intrinsic viscosity of the polytrimethylene terephthalate; and $[\eta_b]$ is the intrinsic viscosity of the polyethylene terephthalate), the conjugating ratio of the two components regulated so as to be (35:65)-(65:35), the ratio of the apparent shrinkage to the fiber shrinkage satisfying the formula (b): $6 \leq (S_a/S_b) \leq 12$ (wherein, S_a is the apparent shrinkage; and S_b is the fiber shrinkage), and $\geq 50\%$ crimp-stretching rate.

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